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**From:** Brown, Cheryl A. [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DD6F8A562924439AAF97CA98DDAF1E10-BROWN, CHERYL]  
**Sent:** 1/31/2018 6:15:55 PM  
**To:** Labiosa, Rochelle [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ded3654216c9461d95cd5a3ceec507ef-Labiosa, Rochelle]; Fullagar, Jill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7ba061353c314b40a14a8be1ee382ae3-Gable, Jill]  
**Subject:** RE: upwelling index/windstress

Yes, I believe that 2015 was different in terms of arag sat state.

Cheryl

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**From:** Labiosa, Rochelle  
**Sent:** Wednesday, January 31, 2018 10:15 AM  
**To:** Fullagar, Jill <Fullagar.Jill@epa.gov>  
**Cc:** Brown, Cheryl A. <Brown.Cheryl@epa.gov>  
**Subject:** upwelling index/windstress

Hi Jill – I like this figure for wind stress that Cheryl shared a while back (I actually thought we were going to replace the other upwelling figure with this at some point)– could swap out in the briefing material:

<http://damp.coas.oregonstate.edu/windstress/allyears.html>

Also compare 2011 (more typical year) <http://damp.coas.oregonstate.edu/windstress/2011.html> with 2015 (the blob year – anomalous) - <http://damp.coas.oregonstate.edu/windstress/2015.html> (the black lines on each plot show the mean and stdev from 1985-2017). Would be interesting to compare aragonite saturation state data from those two years.